

Internal Combustion MCQ Question Answer

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Question: 1. Which one of the following engines will have heavier flywheel than the remaining ones?

- Option A. 30 kW four-stroke petrol engine running at 1500 r.p.m.
- Option B. 30 kW two-stroke petrol engine running at 1500 r.p.m.
- Option C. 30 kW two-stroke diesel engine running at 750 r.p.m.
- Option D. 30 kW four-stroke diesel engine running at 750 r.p.m.

Question: 2. The normal heptane (C_7H_{16}) is given a rating of _____ octane number.

- Option A. 0
- Option B. 50
- Option C. 100
- Option D. 120

Question: 3. In compression ignition engines, swirl denotes a

- Option A. Haphazard motion of the gases in the chamber
- Option B. Rotary motion of the gases in the chamber
- Option C. Radial motion of the gases in the chamber
- Option D. None of the above

Question: 4. The process of breaking up or a liquid into fine droplets by spraying is called

- Option A. Vaporisation
- Option B. Carburetion
- Option C. Ionisation
- Option D. Atomisation

Question: 5. A two stroke cycle engine gives _____ the number of power strokes as compared to the four stroke cycle engine, at the same engine speed.

- Option A. Half
- Option B. Same
- Option C. Double
- Option D. Four times

Question: 6. Which of the following does not relate to a spark ignition engine?

- Option A. Ignition coil
- Option B. Spark plug
- Option C. Carburettor
- Option D. Fuel injector

Question: 7. The combustion in compression ignition engines is

- Option A. Homogeneous
- Option B. Heterogeneous
- Option C. Both (A) and (B)
- Option D. None of these

Question: 8. In diesel engine, the compression ratio in comparison to expansion ratio is

- Option A. Same
- Option B. Less
- Option C. More
- Option D. Variable

Question: 9. If petrol is used in a diesel engine, then

- Option A. Low power will be produced
- Option B. Efficiency will be low
- Option C. Higher knocking will occur
- Option D. Black smoke will be produced

Question: 10. A higher compression ratio causes

- Option A. Pre-ignition
- Option B. Increase in detonation
- Option C. Acceleration in the rate of combustion
- Option D. Any one of these

Question: 11. The pressure at the end of compression in the case of diesel engine is of the order of

- Option A. 6 kg/cm
- Option B. 12 kg/cm
- Option C. 20 kg/cm
- Option D. 35 kg/cm

Question: 12. Scavenging is usually done to increase

- Option A. Thermal efficiency
- Option B. Speed
- Option C. Power output
- Option D. Fuel consumption

Question: 13. The air-fuel ratio of the petrol engine is controlled by

- Option A. Carburettor
- Option B. Injector
- Option C. Governor
- Option D. None of these

Question: 14. The brake power is the power available

- Option A. In the engine cylinder
- Option B. At the crank shaft
- Option C. At the crank pin
- Option D. None of these

Question: 15. A gas engine has a swept volume of 300 cm^3 and clearance volume of 25 cm^3 . Its volumetric efficiency is 0.88 and mechanical efficiency is 0.90 . The volume of the mixture taken in per stroke is

- Option A. 248 cm^3
- Option B. 252 cm^3
- Option C. 264 cm^3
- Option D. 286 cm^3

Question: 16. Air fuel ratio for idling speed of a petrol engine is approximately

- Option A. 1 : 1
- Option B. 5 : 1
- Option C. 10 : 1
- Option D. 15 : 1

Question: 17. The thermal efficiency of diesel engines is about

- Option A. 15 %
- Option B. 30 %
- Option C. 50 %
- Option D. 70 %

Question: 18. If the temperature of intake air in IC engines is lowered, then its efficiency will

- Option A. Increase
- Option B. Decrease
- Option C. Remain same
- Option D. Increase up to certain limit and then decrease

Question: 19. In a typical medium speed 4-stroke cycle diesel engine

- Option A. Compression starts at 35° after bottom dead center and ends at top dead center
- Option B. Compression starts at bottom dead center and ends at top dead center
- Option C. Compression starts at 10° before bottom dead center and, ends just before top dead center
- Option D. May start and end anywhere

Question: 20. The object of providing masked inlet valve in the air passage of compression ignition engines is to

- Option A. Enhance flow rate
- Option B. Control air flow
- Option C. Induce primary swirl

Option D. Induce secondary turbulence

Question: 21. The sensing element in the control system of nuclear reactors measures the _____ of the neutron flux in the reactor.

Option A. Temperature

Option B. Volume

Option C. Density

Option D. None of these

Question: 22. The specific fuel consumption per B.P. hour for a diesel engine is about

Option A. 0.2 kg

Option B. 0.25 kg

Option C. 0.3 kg

Option D. 0.35 kg

Question: 23. The knock in diesel engine occurs due to

Option A. Instantaneous and rapid burning of the first part of the charge

Option B. Instantaneous auto ignition of last part of charge

Option C. Delayed burning of the first part of the charge

Option D. Reduction of delay period

Question: 24. If the compression ratio of an engine working on Otto cycle is increased from 5 to 7, the percentage increase in efficiency will be

Option A. 2 %

Option B. 4 %

Option C. 8 %

Option D. 14 %

Question: 25. The air requirement of a petrol engine during starting compared to theoretical air required for complete combustion is

Option A. More

Option B. Less

Option C. Same

Option D. May be more or less depending on engine capacity

Question: 26. The working cycle in case of four stroke engine is completed in following number of revolutions of crankshaft

Option A. 1/2

Option B. 1

Option C. 2

Option D. 4

Question: 27. The voltage required to produce a spark across the gap, between the sparking points

is

Option A. 2000 to 4000 volts

Option B. 4000 to 6000 volts

Option C. 6000 to 10,000 volts

Option D. 10,000 to 12,000 volts

Question: 28. If the intake air temperature of I.C. engine increases, its efficiency will

Option A. Increase

Option B. Decrease

Option C. Remain same

Option D. None of these

Question: 29. The method of determination of indicated power of a multi cylinder spark ignition engine is by the use of

Option A. Morse test

Option B. Prony brake test

Option C. Motoring test

Option D. Heat balance test

Question: 30. In a diesel engine, the fuel is ignited by

Option A. Spark

Option B. Injected fuel

Option C. Heat resulting from compressing air that is supplied for combustion

Option D. Ignition

Answer Sheet

1	A	
2	A	
3	B	
4	D	
5	C	
6	D	
7	B	
8	C	
9	C	
10	D	
11	D	
12	C	
13	A	
14	B	
15	C	
16	C	
17	D	
18	A	
19	A	
20	C	
21	C	
22	A	
23	A	
24	D	
25	B	
26	C	
27	C	
28	B	
29	A	
30	C	